

## NEW RECORDS OF DACINAE (DIPTERA: TEPHRITIDAE) FROM NORTHERN QUEENSLAND AND TORRES STRAIT, AUSTRALIA

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### Abstract

*Bactrocera (Bactrocera) abdonigella* (Drew), *B. (B.) abundans* Drew, *B. (B.) curreyi* Drew, *B. (B.) furvilineata* Drew, *B. (B.) lineata* (Perkins), *B. (B.) repanda* Drew, *B. (B.) trifaria* (Drew), *B. (B.) vulgaris* Drew and *B. (Zeugodacus) macrovittata* Drew are newly recorded from Australia (Torres Strait, Queensland). Distributional notes on seven other species in northern Queensland are included. Male lure records are newly provided for *B. (B.) daruensis* Drew [methyl eugenol] and *B. (B.) repanda* [cue lure].

### Introduction

Hancock *et al.* (2000) provided an updated list of the distribution and host plants of the 101 species of Dacinae then known from Australia, although a record of *Bactrocera (Bactrocera) daruensis* Drew from Murray Island (Drew 1989) was overlooked. Furthermore, previous records of *B. (B.) pseudodistincta* (Drew) and *B. (B.) redunca* (Drew) are almost certainly based on misidentifications of *B. (B.) furvilineata* Drew and *B. (B.) anfracta* Drew respectively. Continued monitoring of Torres Strait and Cape York Peninsula by the Australian Quarantine and Inspection Service (AQIS) has added a further nine species to the list, all infrequently collected on Torres Strait islands. They are of no economic importance and may be identified using Drew (1989). A total of 109 species is now recorded from Australia. Range extensions are noted also for a further seven species recorded previously from Australia. In addition, an undescribed species, similar in appearance to *B. aurea* (May), is known from Boigu and Saibai Islands in northern Torres Strait.

Voucher specimens from Torres Strait and Cape York Peninsula are lodged in the AQIS Collection, Mareeba. Others are in the Queensland Department of Primary Industries, Cairns.

### New Australian records

*Bactrocera (Bactrocera) abdonigella* (Drew)

Recorded sporadically from Boigu (8 ♂♂, 27.ii.1997, 6.i.2000, 11.xii.2001, 8.i.2002 & 5.iii.2002), Dauan (5 ♂♂, 27.xi.1997, 22.iv.1999, 6.v.1999 & 12.ix.2000), Saibai (11 ♂♂, 11.ii.1998, 26.ii.1998, 22.iv.1999, 2.xii.1999, 6.i.2000, 12.ix.2000, 14.xi.2000, 6.xi.2001, 10.xii.2001 & 5.ii.2002), Dalrymple (3 ♂♂, 6.i.1997 & 20.iv.1999) and Yam (1 ♂, 21.iv.1999) Islands in northern Torres Strait. Previously known only from Papua New Guinea (Drew 1989). Collected at cue lure.

*Bactrocera (Bactrocera) abundans* Drew

Recorded once each from Boigu (2 ♂♂, 16.xii.1999) and Saibai (1 ♂, 6.i.2000) Islands in northern Torres Strait. Previously known only from Papua New Guinea (Drew 1989). Collected at cue lure.

*Bactrocera (Bactrocera) curreyi* Drew

Recorded once from Dalrymple Island in northeastern Torres Strait (1 ♂, 14.ix.2000). Previously known only from Papua New Guinea and West Papua [formerly Irian Jaya] (Drew 1989). Collected at cue lure.

*Bactrocera (Bactrocera) furvilineata* Drew

Recorded sporadically from Saibai (28 ♂♂, 27.xi.1997, 15.i.1998, 11.xi.1998, 14.xi.2000, 9.i.2001 & 6.iii.2001), Boigu (4 ♂♂, 14.xi.2000 & 10.vii.2001) and Dauan (15 ♂♂, 31.x.1996, 25.xi.1996, 27.xi.1997, 10.xii.1997, 19.x.2000, 14.xi.2000 & 7.xii.2000) Islands in northern Torres Strait. Also recorded once from Horn Island in southern Torres Strait (1 ♂, 20.ii.2001). Previous records of *B. (B.) pseudodistincta* (Drew) from the above islands plus Yam in northern Torres Strait (Drew 1989, Hancock *et al.* 2000) appear to be misidentifications of *B. (B.) furvilineata*. Previously known only from Papua New Guinea (Drew 1989). Collected at cue lure.

*Bactrocera (Bactrocera) lineata* (Perkins)

Recorded once from Dauan Island in northern Torres Strait (1 ♂, 25.ii.2000). Previously known only from Papua New Guinea (Drew 1989). Collected at cue lure.

*Bactrocera (Bactrocera) repanda* Drew

Recorded sporadically from Dauan (6 ♂♂, 26.viii.1996, 20.xii.1996, 14.i.1997, 6.vi.1997 & 21.ii.2001), Saibai (2 ♂♂, 26.viii.1996 & 19.xii.2000), Boigu (2 ♂♂, 7.i.1999 & 6.v.1999) and Stephen (1 ♂, 16.ii.1999) Islands in northern Torres Strait. Previously known only from Papua New Guinea (Drew 1989). All were collected at cue lure, the first lure record for this species.

*Bactrocera (Bactrocera) trifaria* (Drew)

Recorded once from Dauan Island in northern Torres Strait (1 ♂, 13.x.1997). Previously known only from New Britain, Papua New Guinea (Drew 1989). Collected at cue lure.

*Bactrocera (Bactrocera) vulgaris* (Drew)

Recorded once from Warraber (Sue) Island in central Torres Strait (1 ♂, 27.i.1998). Previously known only from Papua New Guinea (Drew 1989). Collected at cue lure.

*Bactrocera (Zeugodacus) macrovittata* Drew

Recorded twice from Saibai Island in northern Torres Strait (2 ♂♂, 7.xii.2000 & 20.iii.2001). Previously known only from Papua New Guinea (Drew 1989). Collected at cue lure.

### Other records

#### *Bactrocera (Bactrocera) batemani* Drew

Specimens from the Atherton Tableland and Iron Range (in QDPI Cairns) appear to belong here and extend the range of this species north from Mackay. Collected at methyl eugenol.

#### *Bactrocera (Bactrocera) daruensis* Drew

Recorded sporadically from Mer (Murray) Island in eastern Torres Strait (9 ♂♂, 30.xi.1999, 7 & 21.ii.2002) and once from Roma Flats, near Bamaga, Cape York (1 ♂, 18.ii.2002). Previously recorded from Murray I. by Drew (1989) but overlooked by Hancock *et al.* (2000). All were collected at methyl eugenol, the first lure record for this species.

#### *Bactrocera (Bactrocera) recurrens* (Hering)

Recorded from Stephen (1 ♂, 3.iii.1999) and Darnley (1 ♂, 20.xii.2000) Islands in northeastern Torres Strait. Previously recorded from Stephen I. by Hancock *et al.* (2000). Collected at cue lure.

#### *Bactrocera (Javadacus) aberrans* (Hardy)

A male from Dauan Island (12.x.2001) is the first record for Torres Strait. Collected at cue lure. Previously known from eastern Queensland, as far north as Atherton and Cairns (Drew 1989).

#### *Bactrocera (Sinodacus) salamander* (Drew & Hancock)

Recorded from Deliverance Island (2 ♂♂, 26.ii.1999) in northwestern Torres Strait and Thursday Island (2 ♂♂, 4.vi.1998 & 9.ii.2001) in southern Torres Strait. Also recorded from Bamaga, Umagico, Injinoo and New Mapoon, northern Cape York Peninsula (40 ♂♂). Previously known only from Bamaga (Drew 1989). Collected at cue lure.

#### *Dacus (Dacus) secamoneae* Drew

A male from Umagico, Cape York has the postpronotal lobe about half yellow and half fuscous, intermediate between Northern Territory specimens and the female from Chillagoe recorded by Drew *et al.* (1999). Males respond weakly to cue lure.

#### *Dacus (Didacus) hardyi* Drew

The distribution of this species is extended south from Lockhart River (mid Cape York Peninsula) to Port Douglas and Cairns (specimens in QDPI Cairns). Collected at cue lure.

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### References

DREW, R.A.I. 1989. The tropical fruit flies (Diptera: Tephritidae: Dacinae) of the Australasian and Oceanian Regions. *Memoirs of the Queensland Museum* 26: 1-521.